AMENDMENTS TO THE CLAIMS

The following listing of claims replaces and supersedes all prior listings of claims in the application.

Listing of Claims:

1-19. (Cancelled)

- 20. (Currently amended) [[An]] <u>A reaction medium for enzyme-catalyzed reactions comprising an oil-in-water (o/w) emulsion composition, comprising:</u>
 - <u>(a)</u> water,
 - (b) [[an]] at least one emulsifier, and
 - (c) an oil phase,

wherein the emulsion is produced by the phase inversion temperature process and has a droplet size of 50 to 400 nm, and wherein said reaction medium is capable of supporting an enzyme-catalyzed reaction selected from the group consisting of hydrolysis, esterification and transesterification.

- 21. (Currently amended) The emulsion composition reaction medium of Claim 20, wherein the said oil phase comprises compounds selected from the group consisting of fatty acid alkyl esters and triglycerides.
- 22. (Currently amended) The emulsion composition reaction medium of Claim [[20]] 21, wherein the emulsifier comprises said fatty acid alkyl esters comprise compounds corresponding to formula (I)[[:]]

$$R^1$$
-COO- R^2 (I)

in which R^1 is a C_{6-22} alkyl group and R^2 is a C_{1-4} alkyl group.

Application No. 10/595,101
Reply to Office Action dated 11/09/2009

23. (Currently amended) The emulsion composition reaction medium of Claim 20, wherein the <u>said</u> oil phase is present in an amount of about 10 to 80% by weight of the total composition.

24. (Currently amended) The emulsion composition reaction medium of Claim 20, wherein the said oil phase is present in an amount of about 20 to 50% by weight of the total composition.

25. (Currently amended) The emulsion composition reaction medium of Claim 20, wherein the water is present in an amount of about 20 to 90% by weight of the total composition.

26. (Cancelled)

27. (Currently amended) The emulsion composition reaction medium of Claim 20, wherein the said water is present in an amount of about 30 to 70% by weight of the total composition.

28. (Currently amended) The emulsion composition reaction medium of Claim 20, wherein the <u>said</u> emulsifier comprises an emulsifier system comprising a hydrophilic emulsifier with a hydrophilic/lipophilic balance value of 8 to 18, and a hydrophobic emulsifier.

29. (Currently amended) The emulsion composition reaction medium of Claim 28, wherein the ratio of the hydrophilic emulsifier to the hydrophobic emulsifier is 10:90 to 90:10.

30. (Cancelled)

- 31. (Currently amended) The emulsion composition reaction medium of Claim 20, wherein the said emulsifier is present in an amount of about 1 to 25% by weight of the total composition.
- 32. (Cancelled)
- 33. (Currently amended) The emulsion composition reaction medium of Claim 20, wherein the said emulsifier is present in an amount of about 5 to 15% by weight of the total composition.
- 34. (Withdrawn) The emulsion composition of Claim 20, further comprising an interfacially active enzyme comprising hydrolases and/or acyl transferases.
- 35. (Withdrawn) The emulsion composition of Claim 34, wherein the hydrolases are selected from the group consisting of esterases, phospholipases, lipases and lipases/acyl transferases.
- 36. (Withdrawn) The emulsion composition of Claim 35, wherein lipases and/or lipases/acyl transferases are obtained from organisms selected from the group consisting of Alcaligenes, Aspergillus niger, Aspergillus oryzea, Aeromonas aerophila, Bacillus species, Candida albicans, Candida antarctica (Trychosporon oryzae, Pseudozyma antarctica), Candida antarctica, Candida cylindracea, Candida glabrata, Candida maltosa, Candida parapsilosis, Candida lipolytica, Candida tropicalis, Candida viswanathii, Chromobacterium viscosum, Fusarium solani, Geotrichum candidum, Issatchenkia orientalis (Candida krusei), Kluyveromyces marxianus (C. kefyr, C. pseudotropicalis), Mucor javanicus, Penicilium camemberti, Penicilium roqueforti, Pichia guilliermondii (Candida guilliermondii), Porcine pancreas, Pseudomonas cepacia, Pseudomonas fluorescens, Rhizomucor miehei, Rhizopus arrhizus, Rhizopus oryzae, Rhizopus niveus, Rhizopus javanicus and Thermomyces lanugenosus and mixtures thereof.

37. (Withdrawn) The emulsion composition of Claim 34, wherein the enzymes are present in an amount of about 0.001 to 20% by weight, and expressed as pure enzyme or as enzyme preparation, based on the total amount of oil phase present.

38-44. (Cancelled)

- 45. (New) A method of carrying out an enzyme-catalyzed reaction comprising running the reaction in a reaction medium comprising an oil-in-water (o/w) emulsion comprising:
 - (a) water,
 - (b) at least one emulsifier, and
 - (c) an oil phase,

wherein said emulsion is produced by the phase inversion temperature process and has a droplet size of 50 to 400 nm, and wherein said enzyme-catalyzed reaction is selected from the group consisting of hydrolysis, esterification and transesterification.

- 46. (New) The method of claim 45 wherein a cosmetic, pharmaceutical or fine chemical is produced by said enzyme-catalyzed reaction.
- 47. (New) The method of Claim 46, wherein said cosmetic, pharmaceutical, or fine chemical comprises a carotenoid, a sterol-containing oil component, and/or vitamin E.
- 48. (New) The process of Claim 45, wherein the enzyme is an interfacially active enzyme comprising hydrolases and/or acyl transferases.
- 49. (New) The method of claim 45 wherein said oil phase comprises compounds selected from the group consisting of fatty acid alkyl esters and triglycerides.